CMPS 2010 Homework 1
Fall 2024

Chapter 1

1. Explain the difference between an object file and an executable file.
2. Explain the difference between a syntax error and a logical error.
3. Explain the difference between an algorithm and source code.
4. A program is a set of _____.
5. Words that have special meaning in a programming language are called _____.
6. Words or names defined by the programmer are called _____.
7. _____ are characters or symbols that perform operations on one or more operands.
8. _____ characters or symbols mark the beginning or ending of programming statements, or separate items in a list.
9. The _____ file must be included in a program that uses the cin and cout functions.

Chapter 2

10. Write assignment statements that perform the following operations with variables **x**, **y**, and **z** :
    - 10.1. Adds 2 to **x** and stores the result in **y**
    - 10.2. Multiplies **y** times 4 and stores the result in **z**
    - 10.3. Divides **x** by 13 and stores the result in **y**
    - 10.4. Subtracts 8 from **y** and stores the result in **x**
    - 10.5. Stores the value 27 in **x**
    - 10.6. Stores the character 'K' in **z**

11. Every complete statement ends with a:
    A) period
    B) # symbol
    C) semicolon
    D) ending brace

12. Which of the following statements is correct?
    A) `#include (iostream)`
    B) `#include {iostream}`
    C) `#include <iostream>`
    D) `#include [iostream]`
    E) All of the above

13. Every C++ program must have a:
    A) cout statement
    B) main function
    C) #include statement
    D) All of the above